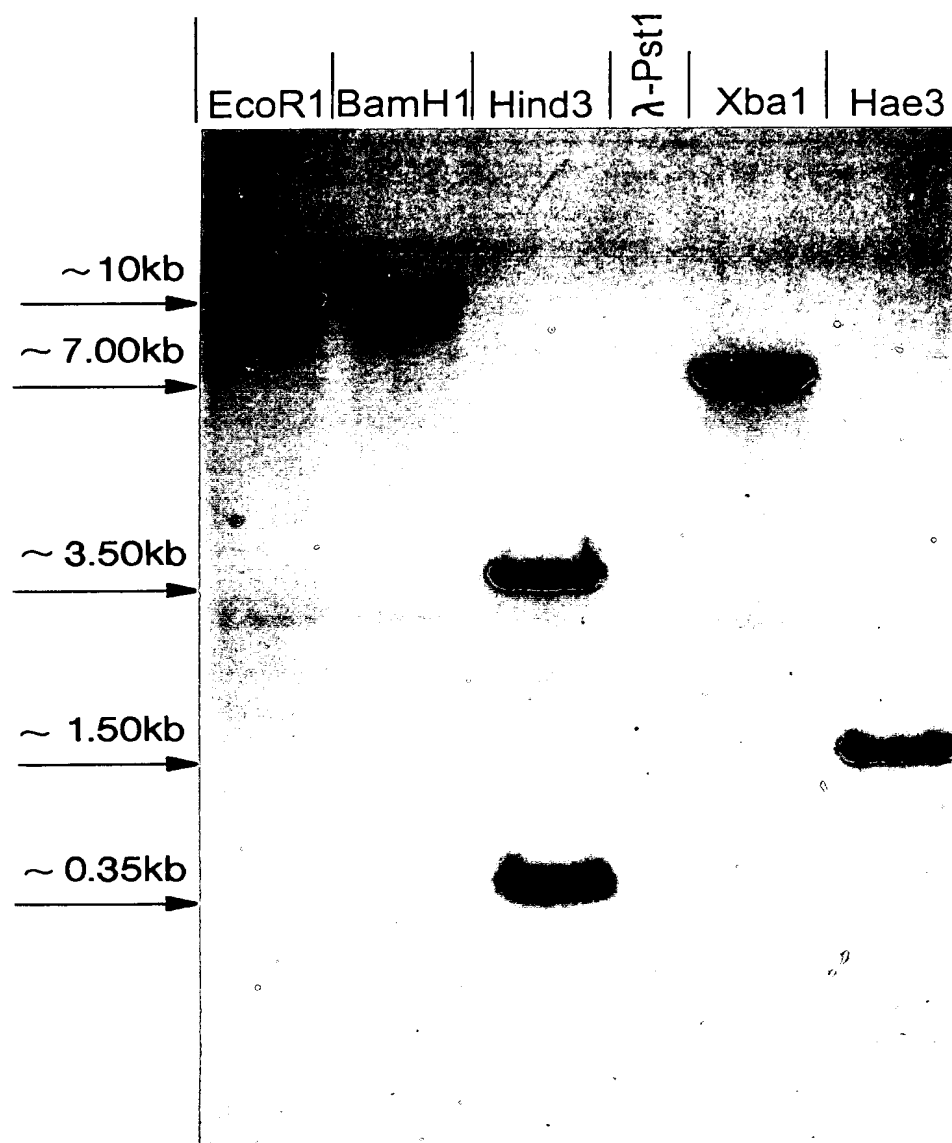


Title: NUCLEIC ACID MOLECULES ENCODING POLYPEPTIDES HAVING THE
ENZYMATIC ACTIVITY OF AN RNA-DIRECTED RNA POLYMERASE (RdRP)

Docket No.: MPG-1 DIV1

Agent: R. Minako Pazdera Reg. No.: 46,984



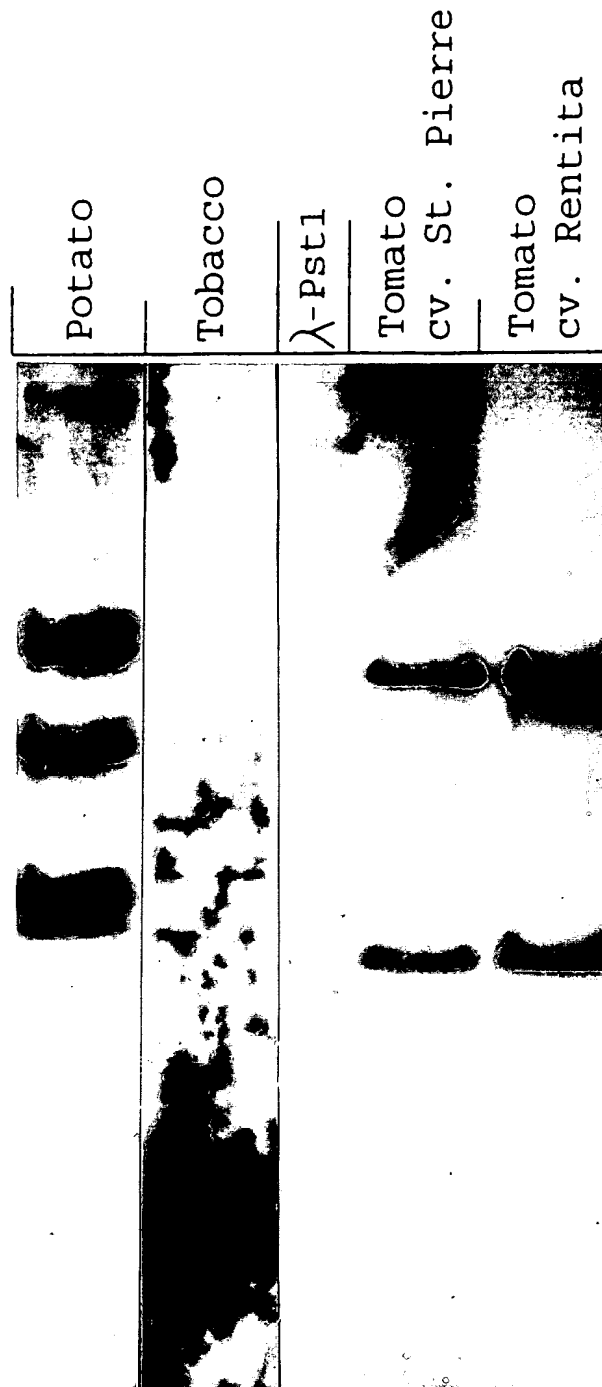
Southern analysis of genomic tomato DNA.

FIG. 1

Title: NUCLEIC ACID MOLECULES ENCODING POLYPEPTIDES HAVING THE
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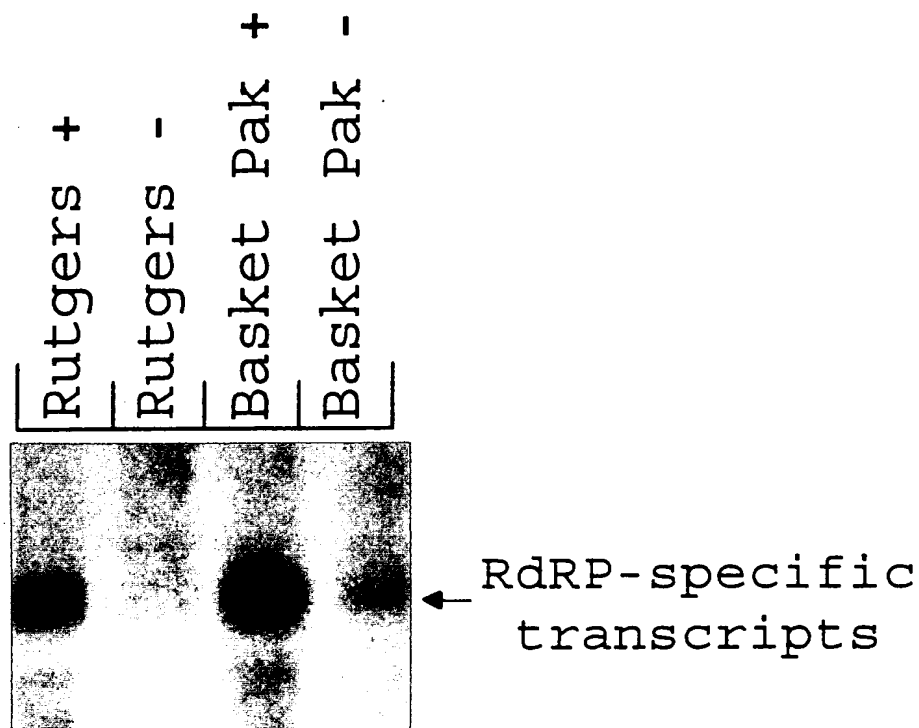
Southern analysis of different genomic DNAs.

FIG. 2

Title: NUCLEIC ACID MOLECULES ENCODING POLYPEPTIDES HAVING THE
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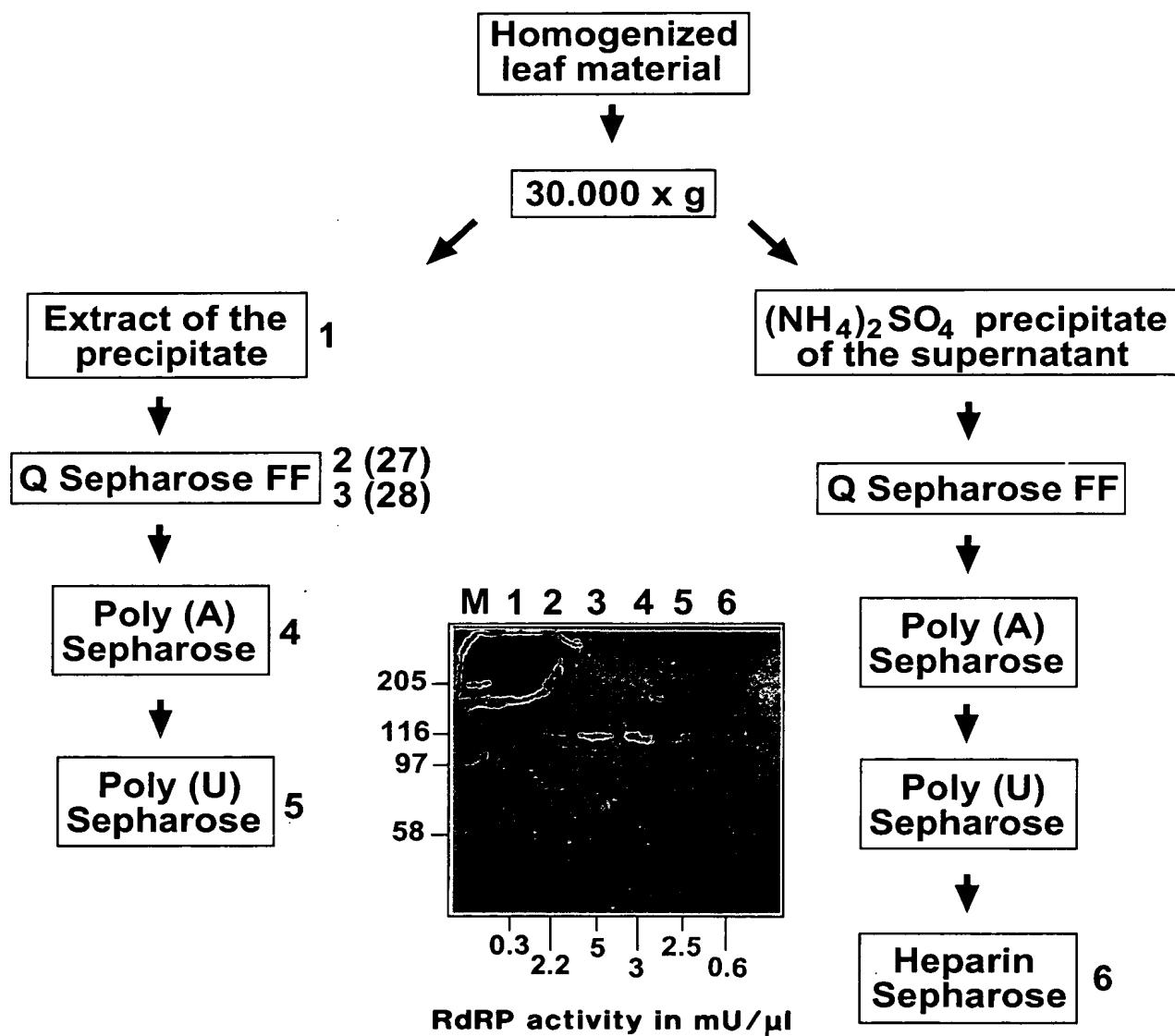
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Northern analysis of total
tomato RNA

FIG. 3

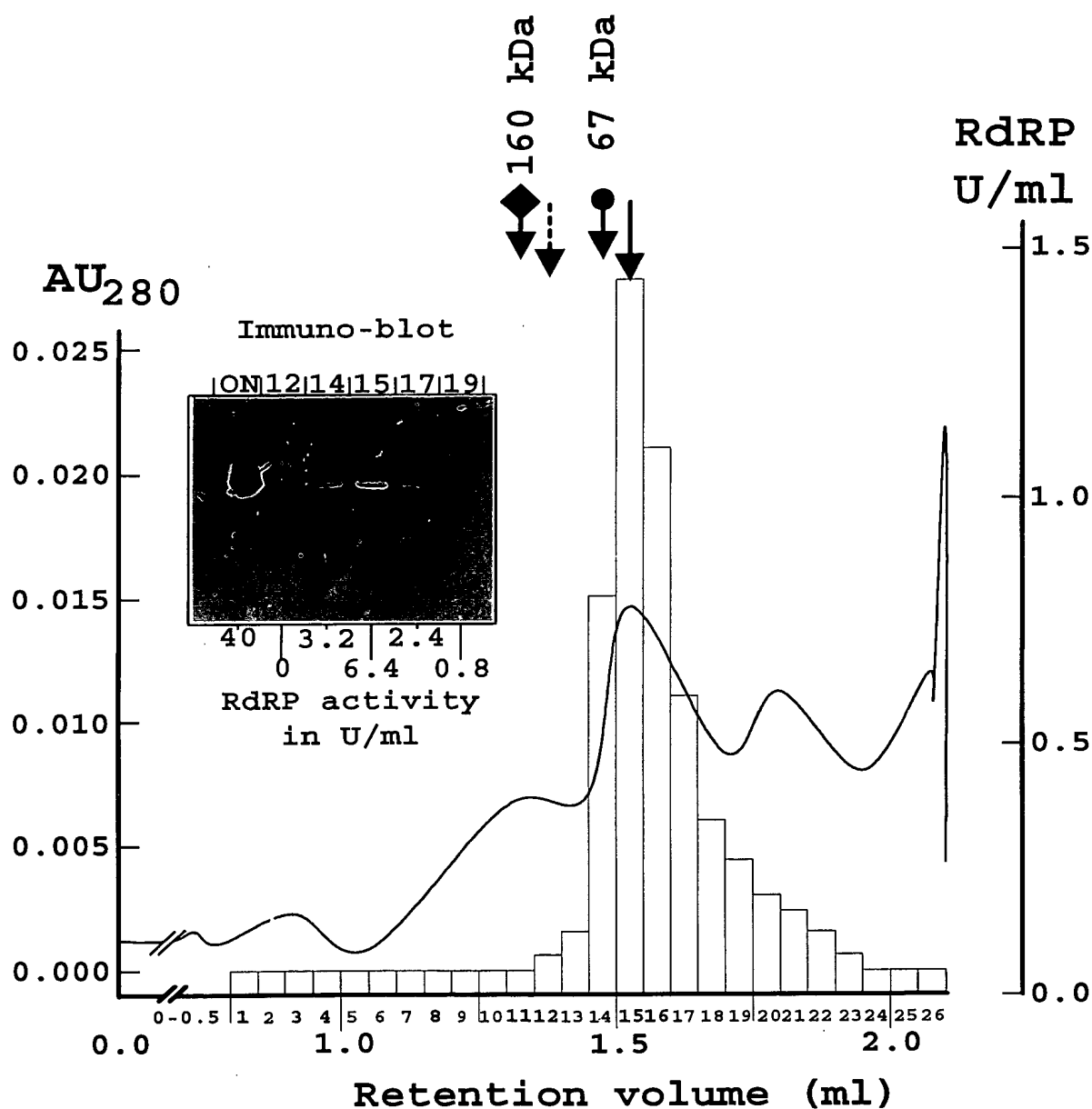
Purification of the RdRP



Immuno-detection of tomato RdRP protein
with a RdRP cDNA-specific antibody

FIG. 4

Gel filtration analysis of the RdRP (Sephadex G-200)



Immuno-detection of the tomato RdRP protein
with a RdRP cDNA-specific antibody

FIG. 5

130kDa-8

E Y P D F M D K P D K

AS-Sequence

5'-GAR TAY CCN GAY TTY ATG GAY AAR CCN GAY AAR-3'

Nucleic Acid

3'-CTY ATR GGN CTR AAR TAC CTR TTY GGN CTR TTY-5'

Sequence

RdRP/8_H1: 5'-TAY CCN GAY TTY ATG GAY AA-3'

PCR-Primers

RdRP/8_R1: 5'-GG YTT RTC CAT RAA RTC NGG RTA-3'

130kDa-15

K A Q E A L E H S P G E N T N I L K

AS-Sequence

5'-AAR GCN CAR GAR GCN YTN GAR CAY WSN CCN GGN GAR AAY ACN AAN ATH YTN AAR

Nucleic Acid

3'-TTY CGN GTY CTY CGN RAN GAY GTR WSN GGN CCN CTY TTR TGN TTN TAD RAN TTY

Sequence

RdRP/15_H1: 5'-AAR GCN CAR GAR GCN YTN GA-3'

PCR-Primers

RdRP/15_R1: 5'-AT NTT NGT RTT YTC NCC NGG-3'

Design of RdRP-specific PCR Primers

FIG. 6